

IN THE ABSTRACT:

The Abstract as amended below with a replacement Abstract shows added text with underlining and deleted text with ~~strikethrough~~.

Please DELETE the Abstract in its entirety and substitute the attached new Abstract.

A simulation device for simulating an operation of a system constituted by a plurality of machines ~~such as robots at low cost~~. An operation program is executed by an arithmetic processing unit in a controller of a machine or by an information processing device having a function of analyzing the operation program equivalent to the controller of the machine, to obtain operation command data for the machine. The obtained operation command data of the machine with lapsing time information are received by the simulation device and stored as historical data. Operation programs of all of the machines constituting the system are executed to obtain historical data of operations of all of the machines, which. ~~The collected historical data are united by arranging the data in time series from a start of simultaneous operations of the machines based on the lapsing time information. Images of three-dimensional models of the machines are displayed by animation based on the united historical data of the system. It is not necessary for one arithmetic processing unit to execute the operation programs for the plurality of machines at a time, so that the simulation device is provided at low cost.~~